PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU			
PCT	To:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422)	SWANSON, Barry, J. Swanson & Bratschun, L.L.C. Suite 330 1745 Shea Center Drive Highlands Ranch, CO 80129 ETATS-UNIS D'AMERIQUE			
Date of mailing (day/month/year) 16 janvier 2002 (16.01.02)				
Applicant's or agent's file reference NEX 87/PCT	IMPORTANT NOTIFICATION			
International application No. PCT/US00/20397	International filing date (day/month/year) 26 juillet 2000 (26.07.00)			
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative			
Name and Address NEXSTAR PHARMACEUTICALS, INC. Suite 200	State of Nationality State of Residence US US			
2860 Wilderness Place Boulder, CO 80301 United States of America	Telephone No.			
Officed States of America	Facsimile No.			
·	Teleprinter No.			
The International Bureau hereby notifies the applicant that to X the person the name the add	<u></u>			
Name and Address GILEAD SCIENCES, INC.	State of Nationality State of Residence US US			
333 Lakeside Drive Foster City, CA 94404 United States of America	Telephone No.			
omiss states of America	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary:				
4. A copy of this notification has been sent to:				
X the receiving Office	the designated Offices concerned			
the International Searching Authority the International Preliminary Examining Authority	X the elected Offices concerned other:			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yukari NAKAMURA			
Facsimile No.: (41-22) 740.14.35	elephone No.: (41-22) 338.83.38			

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From the INTERNATIONAL BUREAU

PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24
	Arlington, VA 22202 THE TATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 18 June 2001 (18.06.01)	in its capacity as elected Office
	<u> </u>
International application No. PCT/US00/20397	Applicant's or agent's file reference NEX 87/PCT
International filing date (day/month/year)	Priority date (day/month/year)
26 July 2000 (26.07.00)	29 July 1999 (29.07.99)
Applicant	<u> </u>
PAGRATIS, Nikos et al	
FACINATIO, MIKOS EL BI	
The designated Office is hereby notified of its election made in the demand filed with the International Preliminar The designated Office is hereby notified of its election made in the demand filed with the International Preliminar in the demand filed with the International Preliminar in the demand filed with the International Preliminar in the demand filed with the International Preliminary in the designation of the designat	
	001 (16.02.01)
in a notice effecting later election filed with the Inter	national Bureau on:
2. The election X was was not was not made before the expiration of 19 months from the priority Rule 32.2(b).	date or, where Rule 32 applies, within the time limit under
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Maria Kirchner
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

US0020397

16

PATENT COOPERATION TREATMEC'D 1 5 MAY 2001

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NEX 87/PCT	FOR FURTHER ACTION	Prelimina		
International application No.	International filing date (day/r	_PCT/IPEA nonth/year)	Priority date (day/month/year)	
PCT/US00/20597	26 JULY 2000 ·		29 JULY 1999	
International Patent Classification (IPC IPC(7): C07H 21/02, 21/04 and US		PC .		
Applicant NEXSTAR PHARMACEUTICALS,	INC.			
Examining Authority and in the second	s transmitted to the applicant total of sheets. sheets, i.e., sheets to this report and/or sheets for the Administrative In the sheets to the Administrative In the Admi	according to ots of the desc eets containing	cription, claims and/or drawings which have ng rectifications made before this Authority.	
3. This report contains indication		ems:		
I X Basis of the repo	•			
	,1 b			
II Priority				
III Non-establishme	nt of report with regard to no	velty, invent	tive step or industrial applicability	
IV Lack of unity of	invention			
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents	cited			
VII Certain defects in the international application				
VIII Certain observations on the international application				
Date of submission of the demand	Date	of completion	n of this report	
16 FEBRUARY 2001	2:	APRIL 200		
Name and mailing address of the IPEA	/US Autho	circl officer	- British In	
Commissioner of Patents and Traden Box PCT Washington, D.C. 20231		rephanie:	ZITOMER, PHD	
Facsimile No. (703) 305-3230	Telep	hone No. ((703) 508-0196	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

In	terna	tional	applicat	ion	No.

PCT/US00/20397

L B	RS15 O	the report				
1. With	negan	to the elements of the internal	ional application *			
x	_	nternational application as				
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		' 		, filed with the demand		
	page	NONE NONE	, filed with the letter of			
\mathbf{x}	the c	laims:				
L		82		, as originally filed		
			, as amended (together with any	statement) under Article 19		
		NONE		-		
		NONE	, filed with the letter of			
X	the d	rawings:				
	page	1-13		, as originally filed		
	page	NONE		, filed with the demand		
	page	NONE NONE	, filed with the letter of			
X	the se	equence listing part of the de	escription:			
		1-81	<u> </u>			
		NONE NONE		, filed with the demand		
	pages	NONE NONE	, filed with the letter of			
	the la	nguage of publication of the	nished for the purposes of international search (the international application (under Rule 48.3(b)) ished for the purposes of international preliminary ex).		
3. Wit		´ rd to any nucleotide and/or	amino acid sequence disclosed in the internations out on the basis of the sequence listing:	al application, the international		
		ned in the international ap				
X filed together with the international application in computer readable form.						
furnished subsequently to this Authority in written form.						
furnished subsequently to this Authority in computer readable form.						
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		atement that the information :	recorded in computer readable form is identical to the	ne writen sequence listing has		
4. X	The a	mendments have resulted	in the cancellation of:			
	X	the description, pages	NONE			
	X	the claims, Nos.	NONE			
	X	the drawings, sheets/fig_	NONE			
5.	This r	eport has been drawn as if (so	ome of) the amendments had not been made, since the	ey have been considered to go		
	beyon	nd the disclosure as filed, as in	ndicated in the Supplemental Box (Rule 70.2(c)).**	-		
in th	icemen is repo 70.17)	ort as "originally filed" and a	shed to the receiving Office in response to an invitation are not annexed to this report since they do not con	under Article 14 are referred to ntain amendments (Rules 70,16		
	,		amendments must be referred to under item I and	annexed to this report.		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/20397

Claims NONE NONE NONE NONE NONE NONE NONE NON	statement			
Inventive Step (IS) Claims L-8 NONE N Claims N Claims Claims N Claims L-8 NONE N Claims	Novelty (N)	Claims	1-8	Y
Industrial Applicability (IA) Claims		Claims	NONE	N
Industrial Applicability (IA) Claims	Inventive Step (IS)	Clai-a	1_0	v
Industrial Applicability (IA) Claims	inventive step (1s)		· · · · · · · · · · · · · · · · · · ·	
Claims NONE N Citations and explanations (Rule 70.7) Claims 1-8 meet the criteria for novelty and inventive step set out in PCT Article 33(2)-(3) because the prior art does not teach or fairly suggest the claimed invention nucleic acid ligand to TGFbeta2 selected from the group consisting of disclosed nucleotide sequences (claim 1) or the claimed invention complex comprised of a TGFbeta2 nucleic acid ligand and a non-immunogenic, high molecular weight (NIHMW) compound or a lipophilic compound (claim 3) including embodiments comprising a linker between the ligand of claim 2 and the NIHMW or lipophilic compound (claim 3), the NIHMW compound is a polyalkylene glycol (claim 4); which may be polyethylene glycol (claim 5) having a molecular weight of about 10-80 K (claim 6) or about 20-45 K (claim 7) or the specific nucleic acid ligand and chemical structure of claim 8. Toothman et al. (5,781,228) disclose a nucleic acid ligand to TGFbeta1, a compound related to but different in structure and function from, TGFbeta2. Janjic et al. (5,781,424) disclose a complex of a nucleic acid ligand to VEGF and NIHMW compound or a lipophilic compound and provide background teachings on the subject of complexing nucleic acid ligands with NIHMW and lipophilic compounds. The skilled practitioner in the art would not have been motivated to combine the reference teachings due to lack of overlap of subject matter especially with regard to the different physiologic roles of VEGF and TGFbeta1. VEGF is a stimulator of endothelial cells and is involved in angiogenesis whereas TGFbe polypeptides primarily influence growth, differentiation and gene expression in cells. Claims 1-8 meet the criteria for industrial applicability set out in PCT Article 35(4), because the skilled practitioner in the art would have recognized that the utility of TGFbeta2 nucleic acid ligands and complexes for diagnostic and therapeutic applications would be essentially the same as that of VEGF ligands and complexes as taught by Janjic et al.				
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	a non-immunogenic, high molecular weight embodiments comprising a linker between the NIHMW compound is a polyalkylene glycol weight of about 10-80 K (claim 6) or about claim 8. Toothman et al. (5,731,228) discloss structure and function from, TGFbeta2. Jan	(NIHMW) com the ligand of cla (claim 4); whice 20-45 K (claim the a nucleic acid thice the al. (5,781	pound or a lipophilic compound (claim 2) including im 2 and the NIHMW or lipophilic compound (claim 3) in may be polyethylene glycol (claim 5) having a molec 7) or the specific nucleic acid ligand and chemical struligand to TGFbeta1, a compound related to but differ 424) disclose a complex of a nucleic acid ligand to VE	s); the cular cture of cent in GF and
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INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/20397

A. CLASSIFICATI N OF SUBJECT MATTER					
IPC(7) :C07H 21/02, 21/04 US CL :536/22.1 LD and Chariffontian (IPC) and both national elegation and IPC					
	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
	cumentation searched (classification system followed	by classification symbols)			
U.S. : 5					
Documentati	on searched other than minimum documentation to the	extent that such documents are included	in the fields scarched		
Electronic d	ata base consulted during the international search (na	me of data base and, where practicable	, search terms used)		
WEST, I	OIALOG ONESEARCH; search terms: nucleic lig cogenic, polyalkylene glycol				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Y	US 5,731,424 A (TOOTHMAN et al.) col. 5, line 66-col. 6, line 1.	24 March 1998, claims 1-9;	2-7		
Y	US 5,859,228 A (JANJIC et al.) 12 January 1999; see entire document.				
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:					
Furti	ner documents are listed in the continuation of Box C				
	ecial categories of cited documents: cument defining the general state of the art which is not considered	"I" later document published after the int date and not in conflict with the app the principle or theory underlying the	lication but cited to understand		
to	be of particular relevance riser document published on or after the international filing date	"X" document of particular relevance; the	e claimed invention cannot be		
11. 40	cument which may throw doubts on priority claim(s) or which is ad to establish the publication date of another citation or other	when the document is taken slone			
*P	ecial reason (as specified) comment referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such the property of the construction	step when the document is h documents, such combination		
P do	seans comment published prior to the international filing date but later than	*&* document member of the same pater			
Date of the actual completion of the international search Date of mailing of the international search report					
26 OCT	DBER 2000	24 NOV 2000)		
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Authorized officer Authorized officer					
Box PCT Washingto	en, D.C. 20231	STEPHANIE ZIJIOMER, PHD	gr.		
Enceimile 1	No. (703) 305-3230	Telephone No. (703) 308-0196	· · · · · · · · · · · · · · · · · · ·		